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L3: Entry 1 of 6

File: USPT

Dec 3, 2002

DOCUMENT-IDENTIFIER: US 6490620 B1

TITLE: Integrated proxy interface for web based broadband telecommunications management

Detailed Description Text (49):

Also shown as part of the Broadband reporting system architecture 200 of FIG. 6 is a Web Server 24 and Dispatcher component 26 which provides message transport between the BB client browser and a Broadband proxy interface including all authentication and encryption. Thus, secure communication from the customer browser to a DMZ Web server is enabled over a first TCP/IP socket connection, such as SSL, and, secure communication from the DMZ Web server over a corporate firewall to the Dispatcher server is enabled over a second TCP/IP socket connection, such as DES. These secure paths enable customer requests and server responses to be communicated between the client browser and the Broadband server 250. Specifically, the Dispatcher server 26 includes an integrated Broadband proxy application to forward user requests and responses to/from the Broadband server process 250 and to enable the Broadband functionality. This proxy capability includes a multi-thread engine enabling multiple, simultaneously executing sessions supporting anticipated user load. The interface between the Dispatcher server and the Broadband proxy process is also message-based employing, e.g., TCP/IP socket transport, and, as will be described, a messaging protocol is defined that comprises a generic message header followed by proxy-specific data. For messages sent to the Broadband server, the generic message header is first sent followed by the proxy specific data. In the other direction, the same process is employed, i.e., the Broadband proxy sends the generic header followed by the proxy-specific response back to the dispatch server for communication over the firewall and back to the Web server.

Current US Original Classification (1):709/224Current US Cross Reference Classification (1):709/223Current US Cross Reference Classification (2):709/226

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US006490620B1

(12) **United States Patent**
Ditmer et al.

(10) **Patent No.:** **US 6,490,620 B1**
(45) **Date of Patent:** **Dec. 3, 2002**

(54) **INTEGRATED PROXY INTERFACE FOR
WEB BASED BROADBAND
TELECOMMUNICATIONS MANAGEMENT**

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(*) Notice: Subject to any disclaimer, the term of this
patent is extended or adjusted under 35
U.S.C. 154(b) by 0 days.

(21) Appl. No.: **09/159,407**

(22) Filed: **Sep. 24, 1998**

Related U.S. Application Data

(60) Provisional application No. 60/060,655, filed on Sep. 26,
1997.

(51) Int. Cl.⁷ **G06F 15/173**

(52) U.S. Cl. **709/224; 709/226; 709/223**

(58) Field of Search **709/224, 229,**
709/202, 203, 226, 250, 223; 705/1, 10,
35, 8, 44, 30; 707/4, 10, 104; 370/352,
384, 353; 345/335; 379/9, 10; 714/48, 26;
713/155, 201

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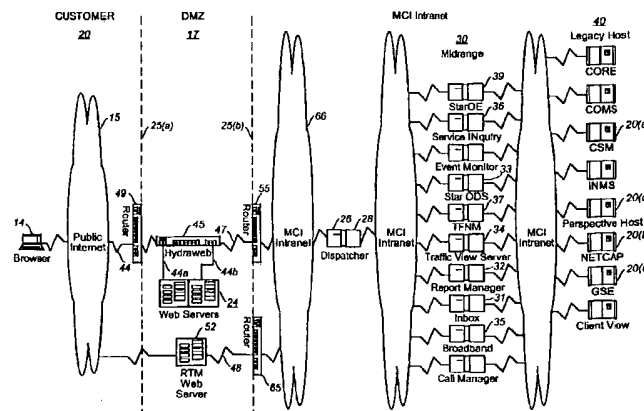
Primary Examiner—Mark H. Rinehart

Assistant Examiner—Thong Vu

(57) **ABSTRACT**

A Web/Internet-based performance reporting and trouble
shooting tool that enables customers to understand the
performance of their broadband telecommunications data
networks via a graphical user interface. The tool is an
object-oriented client server application that provides cus-
tomers Web/Internet access to real-time SNMP alarms,
real-time events, and near real-time performance statistics
and configuration reports pertaining to their virtual transport
networks including ATM, Frame-Relay and other broadband
networks. Messaging is employed to enable specific report
option presentation, ad-hoc report customization and report
execution options. A Web/Internet-based reporting system
infrastructure is provided that enables the secure initiation,
acquisition, and presentation of customer reports to via a
Web browser.

23 Claims, 34 Drawing Sheets



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L3: Entry 6 of 6

File: USPT

Sep 12, 2000

DOCUMENT-IDENTIFIER: US 6119149 A

TITLE: System and process allowing collaboration within and between enterprises for optimal decision making

Detailed Description Text (13):

Hub engines and spoke engines, together with a global collaboration workspace, can be the primary entities of a global collaboration manager. In this environment, a hub engine is the primary controller of the collaboration. The hub engine can coordinate both global collaborations as well as local collaborations. Global collaborations are those that span hub nodes 18, spoke nodes 20 and 24 and web nodes 26. Local collaborations can run purely on a hub node. These collaborations can be distributed, but stay within the confines of a single enterprise. Hub engines can also coordinate with hub-user interfaces (UI) as well as the VAN-EDI processor of an EDI proxy 28. In one embodiment, hub engines are multi-threaded engines that can simultaneously coordinate multiple collaborations as well as multiple versions of the same collaboration. Further, the hub engines can dynamically load and execute collaborations.

Current US Original Classification (1):

709/205

Current US Cross Reference Classification (2):

709/201

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US006119149A

United States Patent [19]

Notani

[11] **Patent Number:** **6,119,149**[45] **Date of Patent:** **Sep. 12, 2000**

[54] **SYSTEM AND PROCESS ALLOWING COLLABORATION WITHIN AND BETWEEN ENTERPRISES FOR OPTIMAL DECISION MAKING**

[75] Inventor: **Ranjit N. Notani**, Irving, Tex.

[73] Assignee: **i2 Technologies, Inc.**, Irving, Tex.

[21] Appl. No.: **09/092,348**

[22] Filed: **Jun. 5, 1998**

[51] Int. Cl.⁷ **G06F 15/16**

[52] U.S. Cl. **709/205; 709/201; 707/10**

[58] Field of Search **709/201, 202, 709/205, 106; 707/10, 103, 104; 345/330; 705/1, 10, 7, 8, 28**

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Primary Examiner—Mehmet B. Geckil

Attorney, Agent, or Firm—Baker Botts LLP

[57] **ABSTRACT**

A computer implemented process for enterprise collaboration is provided. The process includes designing a workflow where the workflow has at least one heterocast split and at least one heterocast join. The heterocast split and the heterocast join allow at least one activity to be parameterized, and at least one of the parameters comprising nodes within a node group. The workflow is then instantiated such that the at least one activity is instantiated as a plurality of activities each tailored to a particular node in the node group. The process then involves deploying the workflow including distributing the activities over the nodes in the node group, and executing the workflow to provide multi-enterprise collaboration

1 Claim, 10 Drawing Sheets